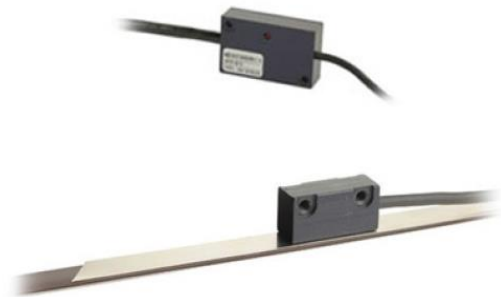


Datasheet

- Miniaturized magnetic sensor IME1
- Resolutions up to 0.5 μm programmable (Pr) through the serial interface
- Remote interpolation unit
- Sensor body made of die-cast metal material
- Mounting of the magnetic sensor through the existing threaded holes M4 or M3
- Wide alignment tolerances
- Protected against inversion of power supply polarity and short circuits at the output ports.



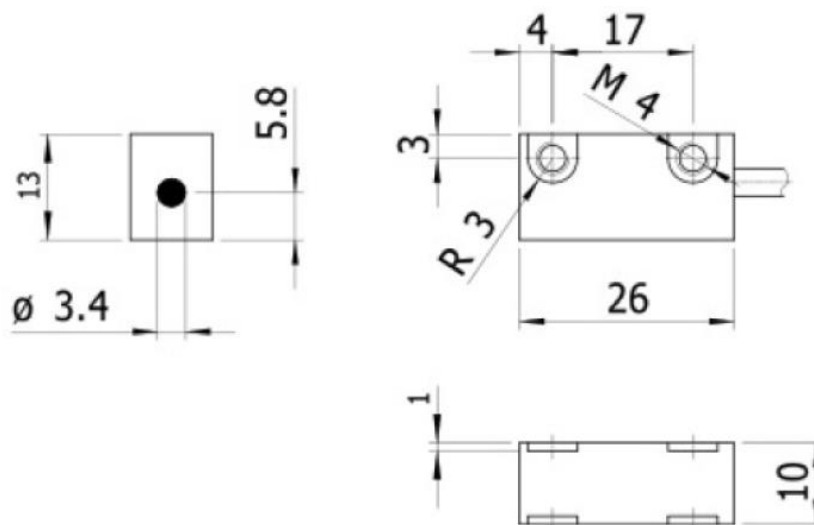
Mechanical Data

Pole pitch	1+1 mm
Resolution	10; 5; 1; 0.5 μm
Accuracy	$\pm 10 \mu\text{m}$
Distance Sensor - magnetic scale	0,1 to 0,4 mm (with scale PM1-30/15)
Reference index	C = at constant pitch (1 mm) Z = positioned on the magnetic scale
Repeatability	± 1 Increment

Electrical Data

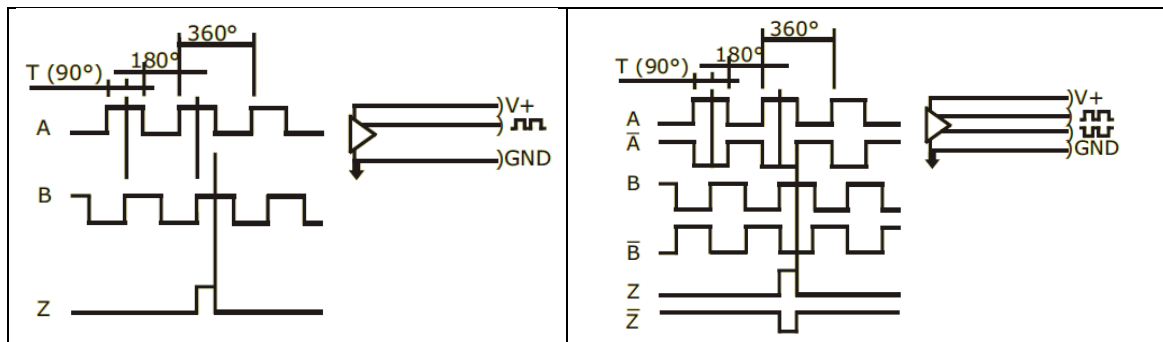
Output	LINE DRIVER / Push-Pull
Power Supply	5-28 VDC $\pm 5\%$
Frequency	max. 300 kHz
Traversing Speed	max. 0.6 m/s or 1.2 m/s
IP-Rating	IP 67

Dimensions



Datasheet

Pin Assignment



	Push Pull	Line Driver / Diff.
A	green	green
$\bar{A}$	-	orange
B	white	white
$\bar{B}$	-	sky blue
Z	brown	brown
$\bar{Z}$	-	yellow
V+	red	rot
V-	dark blue	dark blue
	-	shield

Ordering Example

Type **IME1** - **0,6** - **10** - **C** - **528V** - **Y** - **M01/N** - **SC**

Speed

0,6 = 0,6 m/s
1,2 = 1,2 m/s

Resolution [μm]

0,5 / 1 / 5 / **10**

Index- Plus, periodic

C = at constant pitch (1 mm)
Z = positioned on the magnetic scale

Output Voltage

528V = 5-28 VDC

Output

Y = Push-Pull (ABZ)
L = Line Driver (ABZ, $\bar{ABZ}$)

Cable

M01/N = 1m
M02/N = 2m
M03/N = 3m

Connection

SC = open cable
C3 = C3
C4 = C4